

LILY JO FACTORA

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Technical Skills

Languages: SageMath, Python, R, C++, HTML, CSS.

Personal Projects: Personal website.

Developer Tools: VSCode, CoCalc.

Work Experience

Portland Art Museum

Portland, OR

Archives Work Study Assistant

October 2023 - Present

- Prepared and organized Museum Archives for relocation, safeguarding valuable historical materials and enhancing accessibility for future researchers through cataloging and documentation.

Reed College

Portland, OR

Research Assistant on the h -vector conjecture for graphic matroids

Summer 2023

- Collaborated with other research assistants to investigate the h -vector conjecture, a well-known problem in matroid theory, a subfield of math at the intersection of combinatorics and graph theory.
- Designed and executed a series of experiments and computational simulations to test conjectures and hypotheses, contributing to the ongoing efforts to solve the problem.
- Gained proficiency in relevant software tools and programming languages to facilitate research tasks.
- Created a well-organized [research poster](#) summarizing project findings and procedures, presented at a summer research showcase to effectively convey complex mathematical concepts to a diverse audience.

Castaway Restaurant

Burbank, CA

Concierge

Summer 2022

- Demonstrated outstanding customer service with active listening, strong interpersonal skills, and efficiently managed seating using computer software and effective task prioritization.

Gregory Daniels Fine Arts

Los Angeles, CA

Warehouse Inventory Specialist

Summers of 2018-2021

- Oversaw cleanliness and organization of work areas while managing inventory to maintain accurate records. Handled digital order processing and troubleshooted shipping/receiving issues.

Sierra Service Project

Tsaile, AZ; San Diego, CA

Volunteer

Summers of 2017-2020

- Completed community-based projects to make homes accessible to historically underserved residents.

Education

Reed College

Portland, OR

BA in Mathematics, Minor in Computer Science

Graduation: May 2025

Activities: Asian American Pacific Islander Student Union (Board Member), Photography Club

Relevant Coursework:

Mathematics: Introduction to Probability and Statistics, Calculus, Introduction to Analysis, Discrete Structures, Linear Algebra, Vector Calculus

Computer Science: Comp. Sci. I (Python), Comp. Sci. II (C/C++), Algorithms and Data Structures

Immaculate Heart High School

Los Angeles, CA

4.20 Cumulative GPA

Graduation: June 2021

Activities: Commissioner of Media Productions within the Associated Student Body (2021), Grief Group (Founder, member; 2020-2021), LGBTQ+ Support Group (Board member, member; 2017-2021)

Academic Awards: AP Scholar, Top 5 Scholar Athlete (2020), Scholar Athlete (2017-2021)